

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/007553 A1

(51) International Patent Classification⁷: C07K 16/18,
C12N 15/13, 15/63, A61K 39/395, C12N 5/10, A01K
67/027

(21) International Application Number:
PCT/EP2003/007487

(22) International Filing Date: 10 July 2003 (10.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2002A001527 11 July 2002 (11.07.2002) IT

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(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

(48) Date of publication of this corrected version:

29 April 2004

(15) Information about Correction:

see PCT Gazette No. 18/2004 of 29 April 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ANTIBODIES ANTI-C5 COMPONENT OF THE COMPLEMENT SYSTEM AND THEIR USE

(57) Abstract: The present invention refers to recombinant antibodies of human origin specific for the C5 component of the activated complement and characterised by the ability to inhibit the conversion of the C5 alpha chain to C5a and C5b. Moreover the present invention refers to the nucleotide sequences coding for such antibodies and to the therapeutic use of both polypeptide and nucleotide sequences, in particular for the therapy of diseases involving tissue damage deriving from uncontrolled activation of the complement system.

WO 2004/007553 A1

SEQUENCE LISTING

<110> Università degli Studi di Trieste
Consiglio Nazionale Ricerche

<120> Antibodies anti C5 of the complement and their use

<130> 2728PTWO

<150> MI2002A001527

151> 2002-07-11<160> 35

<170> PatentIn version 3.1

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Ile Lys

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Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
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tca tac att agt agt agt agt agt acc ata tac tac gca gac tct gtg 192
Ser Tyr Ile Ser Ser Ser Ser Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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 65 70 75 80

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 85 90 95

gcg aga ggg cct ggt atg gac gtc tgg ggc caa ggg acc acg gtc acc 336
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 35 40 45

Ser Tyr Ile Ser Ser Ser Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

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cct gac cga ttc agt ggc agc ggg tct ggg aca gat ttc act ctc acc	240
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr	
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atc agc agc ctg cag gct gaa gat gtg gca gtt tat tac tgt cag caa	288
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln	
85 90 95	
tat tat agt act cct cag ctc act ttc ggc gga agg acc aaa gtg gat	336
Tyr Tyr Ser Thr Pro Gln Leu Thr Phe Gly Gly Arg Thr Lys Val Asp	
100 105 110	
atc aaa tcc gga ggg tcg acc ata act tcg tat aat gta tac tat acg	384
Ile Lys Ser Gly Gly Ser Thr Ile Thr Ser Tyr Asn Val Tyr Tyr Thr	
115 120 125	
aag tta tcc tcg agc ggt acc cag gta cag ctg cag cag tca gag gga	432
Lys Leu Ser Ser Ser Gly Thr Gln Val Gln Leu Gln Gln Ser Glu Gly	
130 135 140	
ggc gtg gtc cag cct ggg agg tcc ctg aga ctc tcc tgt gca gcg tct	480
Gly Val Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser	
145 150 155 160	
gga ttc acc ttc agt agc tat ggc atg aac tgg gtc cgc cag gct cca	528
Gly Phe Thr Phe Ser Ser Tyr Gly Met Asn Trp Val Arg Gln Ala Pro	
165 170 175	
ggg aag ggg ctg gag tgg gtt tca tac att agt agt agt agt agt acc	576
Gly Lys Gly Leu Glu Trp Val Ser Tyr Ile Ser Ser Ser Ser Ser Thr	
180 185 190	
ata tac tac gca gac tct gtg aag ggc cga ttc acc atc tcc aga gac	624
Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp	
195 200 205	
aat tcc aag aac acg ctg tat ctg caa atg aac agc ctg aga gcc gag	672
Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu	
210 215 220	

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 Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Pro Gly Met Asp Val Trp
 225 230 235 240

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 35 40 45

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Tyr Tyr Ser Thr Pro Gln Leu Thr Phe Gly Gly Arg Thr Lys Val Asp
 100 105 110

Ile Lys Ser Gly Gly Ser Thr Ile Thr Ser Tyr Asn Val Tyr Tyr Thr
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Lys Leu Ser Ser Ser Gly Thr Gln Val Gln Leu Gln Gln Ser Glu Gly
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Gly Lys Gly Leu Glu Trp Val Ser Tyr Ile Ser Ser Ser Ser Thr
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Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
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ggc
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51

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Gly

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<221> MISC FEATURE
<223> Peptide comprising cleavage site of C5 convertase. Corresponding
to aa 727-744 of mature human protein (P01031).

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Ser Lys

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His Leu Tyr Pro
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32

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Universal oligonucleotide for VL2 amplification.

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<400> 35

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29

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/03/07487

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K16/18 C12N15/13 C12N15/63 A61K39/395 C12N5/10
A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

CHEM ABS Data, SEQUENCE SEARCH, BIOSIS, EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 30985 A (TANOX INC) 18 April 2002 (2002-04-18) page 5, line 22 -page 6, line 14 page 13, line 20 -page 16, line 17 page 21, line 9 -page 22, line 2 --- -/--	1-24, 29, 31-36

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- *&* document member of the same patent family

Date of the actual completion of the international search

20 November 2003

Date of mailing of the international search report

12/12/2003

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

Authorized officer

COVONE-VAN HEES, M

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 03/07487

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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